

which may enclose the “donor.” Where explosives storage is in bullet-resistant magazines or where the storage is protected by a bullet-resistant wall, distances and barricade thicknesses in excess of those prescribed in the table in § 555.218 are not required.

(3) These distances apply to ammonium nitrate that passes the insensitivity test prescribed in the definition of ammonium nitrate fertilizer issued by the Fertilizer Institute.<sup>1</sup> Ammonium nitrate failing to pass the test must be stored at separation distances in accordance with the table in § 555.218.

(4) These distances apply to blasting agents which pass the insensitivity test prescribed in regulations of the U.S. Department of Transportation (49 CFR part 173).

(5) Earth or sand dikes, or enclosures filled with the prescribed minimum thickness of earth or sand are acceptable artificial barricades. Natural barricades, such as hills or timber of sufficient density that the surrounding exposures which require protection cannot be seen from the “donor” when the trees are bare of leaves, are also acceptable.

(6) For determining the distances to be maintained from inhabited buildings, passenger railways, and public highways, use the table in § 555.218.

**§ 555.221 Requirements for display fireworks, pyrotechnic compositions, and explosive materials used in assembling fireworks or articles pyrotechnic.**

(a) Display fireworks, pyrotechnic compositions, and explosive materials used to assemble fireworks and articles pyrotechnic shall be stored at all times as required by this Subpart unless they are in the process of manufacture, assembly, packaging, or are being transported.

(b) No more than 500 pounds (227 kg) of pyrotechnic compositions or explosive materials are permitted at one time in any fireworks mixing building, any building or area in which the pyrotechnic compositions or explosive materials are pressed or otherwise prepared for finishing or assembly, or any finishing or assembly building. All pyrotechnic compositions or explosive materials not in immediate use will be stored in covered, non-ferrous containers.

(c) The maximum quantity of flash powder permitted in any fireworks process building is 10 pounds (4.5 kg).

<sup>1</sup>Definition and Test Procedures for Ammonium Nitrate Fertilizer, Fertilizer Institute 1015–18th St. N.W. Washington, DC 20036.

(d) All dry explosive powders and mixtures, partially assembled display fireworks, and finished display fireworks shall be removed from fireworks process buildings at the conclusion of a day's operations and placed in approved magazines.

[T.D. ATF-293, 55 FR 3722, Feb. 5, 1990, as amended by T.D. ATF-400, 63 FR 45004, Aug. 24, 1998]

**§ 555.222 Table of distances between fireworks process buildings and between fireworks process and fireworks nonprocess buildings.**

Net weight of fireworks <sup>1</sup> (pounds)	Display fireworks <sup>2</sup> (feet)	Consumer fireworks <sup>3</sup> (feet)
0–100 .....	57 .....	37
101–200 .....	69 .....	37
201–300 .....	77 .....	37
301–400 .....	85 .....	37
401–500 .....	91 .....	37
Above 500 .....	Not permitted <sup>4 5</sup> .....	Not permitted <sup>4 5</sup>

<sup>1</sup>Net weight is the weight of all pyrotechnic compositions, and explosive materials and fuse only.

<sup>2</sup>The distances in this column apply only with natural or artificial barricades. If such barricades are not used, the distances must be doubled.

<sup>3</sup>While consumer fireworks or articles pyrotechnic in a finished state are not subject to regulation, explosive materials used to manufacture or assemble such fireworks or articles are subject to regulation. Thus, fireworks process buildings where consumer fireworks or articles pyrotechnic are being processed shall meet these requirements.

<sup>4</sup>A maximum of 500 pounds of in-process pyrotechnic compositions, either loose or in partially-assembled fireworks, is permitted in any fireworks process building. Finished display fireworks may not be stored in a fireworks process building.

<sup>5</sup>A maximum of 10 pounds of flash powder, either in loose form or in assembled units, is permitted in any fireworks process building. Quantities in excess of 10 pounds must be kept in an approved magazine.

[T.D. ATF-293, 55 FR 3723, Feb. 5, 1990, as amended by T.D. ATF-400, 63 FR 45004, Aug. 24, 1998]

**§ 555.223 Table of distances between fireworks process buildings and other specified areas.**

DISTANCE FROM PASSENGER RAILWAYS, PUBLIC HIGHWAYS, FIREWORKS PLANT BUILDINGS USED TO STORE CONSUMER FIREWORKS AND ARTICLES PYROTECHNIC, MAGAZINES AND FIREWORKS SHIPPING BUILDINGS, AND INHABITED BUILDINGS.<sup>3 4 5</sup>

Net weight of fireworks <sup>1</sup> (pounds)	Display fireworks <sup>1</sup> (feet)	Consumer fireworks <sup>2</sup> (feet)
0–100 .....	200 .....	25
101–200 .....	200 .....	50
201–300 .....	200 .....	50
301–400 .....	200 .....	50
401–500 .....	200 .....	50
Above 500 .....	Not permitted .....	Not permitted.

<sup>1</sup>Net weight is the weight of all pyrotechnic compositions, and explosive materials and fuse only.